

ABSTRACT

To provide a honeycomb carrier to support a catalyst to clean e.g. an exhaust gas of an automobile particularly containing NO_x, which is excellent in heat resistance, thermal shock resistance, mechanical strength and thermal decomposition resistance and has a great corrosion resistance to a catalyst, and is thus capable of being used with stability for a long period of time, and a process for its production.

10 The material for the honeycomb carrier is an aluminum magnesium titanate sintered product obtained by firing at from 1,000 to 1,700°C a molded product formed from a raw material mixture comprising 100 parts by mass, as calculated as oxides, of a mixture comprising a Mg-
15 containing compound, an Al-containing compound and a Ti-containing compound in the same metal component ratio as the metal component ratio of Mg, Al and Ti in an aluminum magnesium titanate represented by the empirical formula $Mg_xAl_{2(1+x)}Ti_{(1+x)}O_5$ (wherein $0 < x < 1$), and from 1 to 10 parts
20 by mass of an alkali feldspar represented by the empirical formula $(Na_yK_{1-y})AlSi_3O_8$ (wherein $0 \leq y \leq 1$).